

AUTOMATIC GENERATION OF CONFIGURATION DATA USING IMPLEMENTATION-SPECIFIC CONFIGURATION POLICIES

ABSTRACT

Techniques are described for application of implementation-specific configuration policies within a network device to generate configuration data. For example, a device, such as a router, may comprise memory to store operational configuration data and candidate configuration data. The device further includes a control unit to apply an implementation-specific configuration policy to alter changes to the candidate configuration data, and commit the altered candidate configuration data to the operational configuration data. In applying the implementation-specific configuration policy, the control unit may insert additional configuration data or replace portions of the candidate configuration data with additional configuration data. In this manner, the device may detect misconfiguration and make changes to the candidate configuration data, thereby performing proactive error correction.